

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P383449

Luminaire Tested: **GAN-SA7C-735-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383449  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7C-735-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44283.9 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

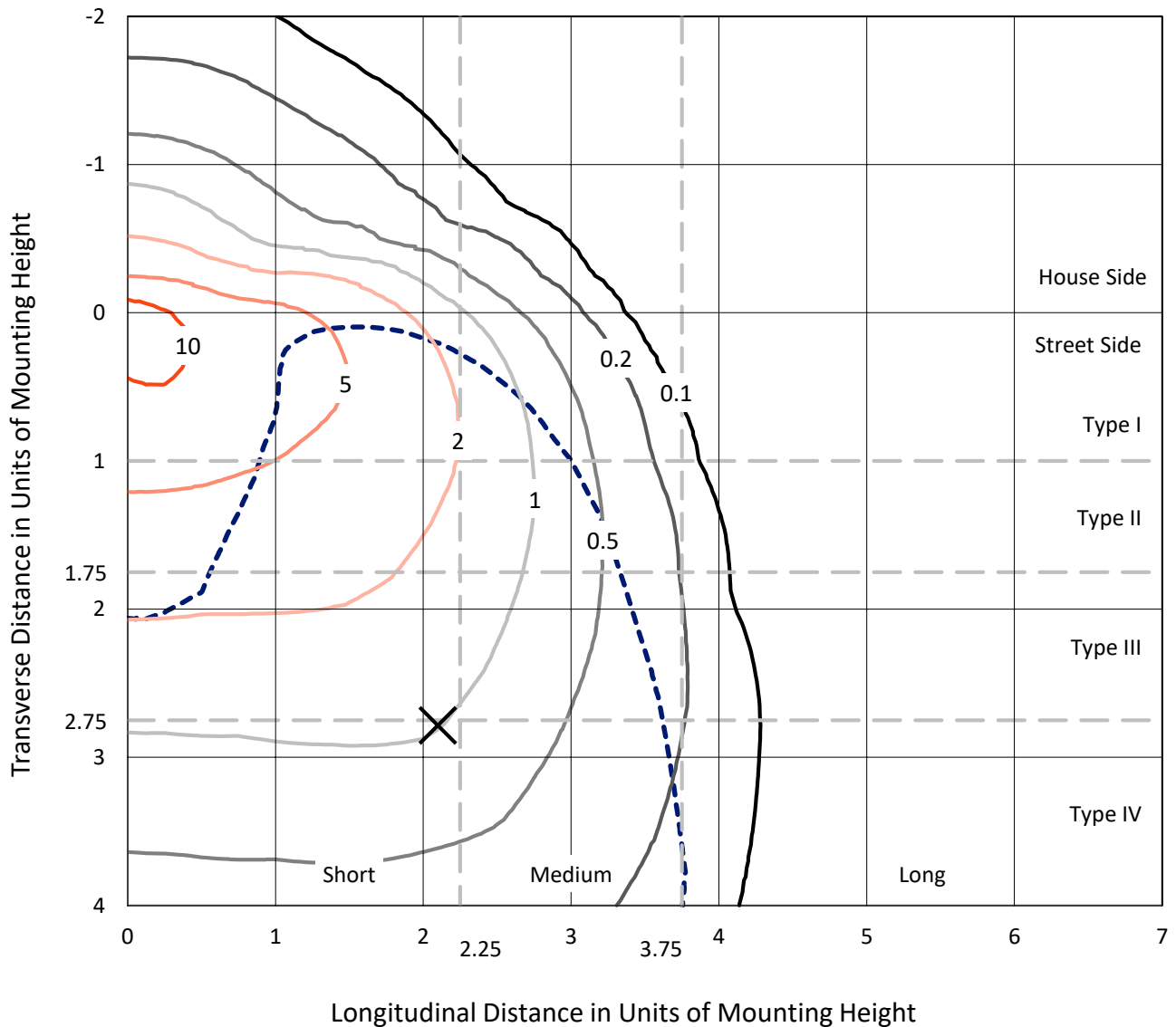
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

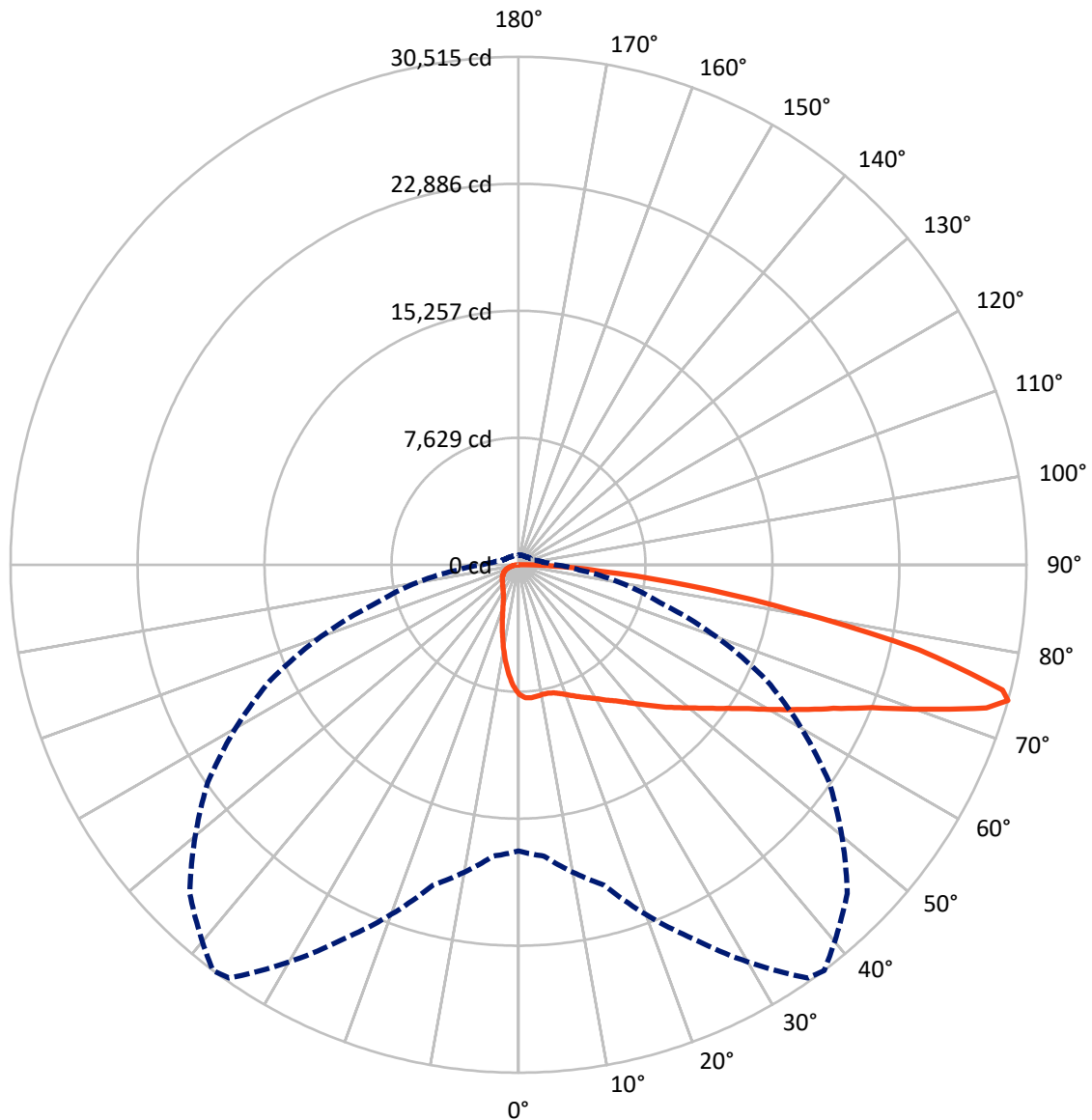
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6093.2   | 0.0    | 6093.2  |
|                    | % Fixture | 13.8     | 0.0    | 13.8    |
| <b>Street Side</b> | Lumens    | 38190.8  | 0.0    | 38190.8 |
|                    | % Fixture | 86.2     | 0.0    | 86.2    |
| <b>Total</b>       | Lumens    | 44283.9  | 0.0    | 44283.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 687.1   | 1.6       |
| 10°-20°   | 1761.2  | 4.0       |
| 20°-30°   | 2713.7  | 6.1       |
| 30°-40°   | 3946.2  | 8.9       |
| 40°-50°   | 5808.1  | 13.1      |
| 50°-60°   | 8156.4  | 18.4      |
| 60°-70°   | 10323.5 | 23.3      |
| 70°-80°   | 9090.3  | 20.5      |
| 80°-90°   | 1797.3  | 4.1       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 44283.9 | 100.0     |
| 0°-180°   | 44283.9 | 100.0     |

**Coefficient of Utilization**

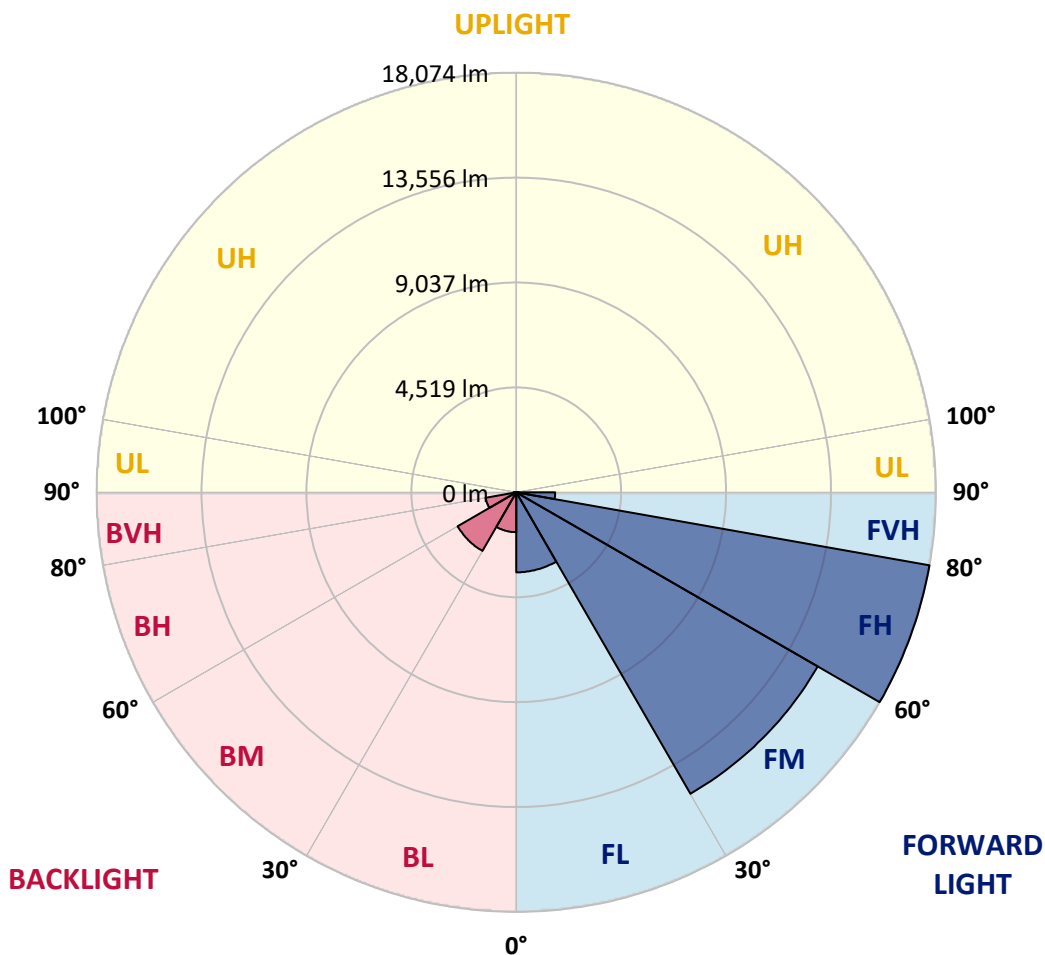


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3445.8  | 7.8       |                         |      |         |
| FM (30°-60°)   | 14994.9 | 33.9      |                         |      |         |
| FH (60°-80°)   | 18074.4 | 40.8      |                         |      | G5      |
| FVH (80°-90°)  | 1675.6  | 3.8       |                         |      | G5      |
| BL (0°-30°)    | 1716.3  | 3.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 2915.8  | 6.6       | B3/5000                 |      |         |
| BH (60°-80°)   | 1339.3  | 3.0       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 121.7   | 0.3       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 37°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7802.6  | 7802.6  | 7802.6  | 7802.6  | 7802.6  | 7802.6  | 7802.6  | 7802.6  | 7802.6  | 7802.6  | 7802.6  |
| 2.5°  | 8069.4  | 8070.9  | 8069.4  | 8057.0  | 8027.2  | 8002.4  | 7982.1  | 7952.4  | 7886.9  | 7837.0  | 7762.1  |
| 5°    | 8145.8  | 8136.5  | 8130.3  | 8106.8  | 8060.0  | 8032.0  | 7993.0  | 7936.8  | 7829.2  | 7729.3  | 7607.7  |
| 7.5°  | 8110.0  | 8099.1  | 8085.0  | 8057.0  | 8003.9  | 7980.5  | 7925.9  | 7852.6  | 7723.1  | 7592.0  | 7417.4  |
| 10°   | 7999.2  | 7996.1  | 7989.9  | 7983.6  | 7938.4  | 7919.6  | 7869.7  | 7791.7  | 7663.8  | 7504.7  | 7300.4  |
| 12.5° | 7876.0  | 7883.8  | 7908.7  | 7941.4  | 7921.2  | 7911.8  | 7880.6  | 7827.6  | 7696.5  | 7524.9  | 7278.6  |
| 15°   | 7798.0  | 7819.8  | 7886.9  | 7972.7  | 7989.9  | 7986.7  | 7978.9  | 7944.6  | 7805.8  | 7615.5  | 7328.5  |
| 17.5° | 7771.4  | 7807.3  | 7935.2  | 8077.2  | 8127.1  | 8138.0  | 8141.2  | 8081.9  | 7927.5  | 7726.3  | 7379.9  |
| 20°   | 7819.8  | 7865.1  | 8052.2  | 8247.3  | 8326.8  | 8333.1  | 8319.0  | 8216.1  | 8042.9  | 7821.4  | 7408.0  |
| 22.5° | 7966.4  | 8007.0  | 8241.0  | 8461.0  | 8551.4  | 8560.7  | 8518.6  | 8362.7  | 8164.5  | 7933.7  | 7447.0  |
| 25°   | 8248.8  | 8298.7  | 8532.7  | 8752.6  | 8799.4  | 8801.0  | 8740.2  | 8546.8  | 8323.7  | 8091.2  | 7531.2  |
| 27.5° | 8616.9  | 8666.8  | 8877.5  | 9092.6  | 9067.8  | 9053.7  | 8971.0  | 8777.6  | 8531.1  | 8308.1  | 7681.0  |
| 30°   | 9027.2  | 9081.8  | 9281.5  | 9434.3  | 9375.0  | 9347.0  | 9279.9  | 9030.3  | 8819.7  | 8604.4  | 7910.3  |
| 32.5° | 9451.5  | 9501.4  | 9676.1  | 9780.6  | 9705.7  | 9693.2  | 9591.9  | 9364.1  | 9195.7  | 9056.8  | 8281.6  |
| 35°   | 9886.7  | 9922.6  | 10094.2 | 10153.4 | 10053.6 | 10050.5 | 10022.4 | 9813.4  | 9707.3  | 9772.8  | 8821.3  |
| 37.5° | 10331.2 | 10340.6 | 10487.3 | 10490.3 | 10460.7 | 10473.2 | 10502.8 | 10371.9 | 10401.5 | 10605.8 | 9523.2  |
| 40°   | 10727.5 | 10752.5 | 10858.5 | 10891.3 | 10942.7 | 10986.4 | 11134.6 | 11048.8 | 11278.2 | 11640.1 | 10396.8 |
| 42.5° | 11020.8 | 11069.1 | 11239.1 | 11323.3 | 11490.3 | 11558.9 | 11768.0 | 11847.5 | 12309.2 | 12852.1 | 11435.7 |
| 45°   | 11268.7 | 11343.6 | 11616.6 | 11789.8 | 12072.1 | 12192.2 | 12491.8 | 12758.5 | 13474.5 | 14167.1 | 12529.1 |
| 47.5° | 11537.0 | 11632.2 | 11973.8 | 12304.5 | 12688.2 | 12824.0 | 13368.4 | 13767.7 | 14717.7 | 15489.9 | 13560.3 |
| 50°   | 11931.7 | 12005.0 | 12338.9 | 12858.3 | 13337.2 | 13511.9 | 14265.3 | 14837.9 | 15981.3 | 16750.3 | 14454.1 |
| 52.5° | 12482.4 | 12454.3 | 12736.7 | 13465.1 | 14107.8 | 14323.1 | 15223.2 | 15976.6 | 17261.9 | 17890.6 | 15209.1 |
| 55°   | 13036.2 | 12989.3 | 13187.5 | 14100.0 | 15006.3 | 15232.5 | 16277.6 | 17120.0 | 18480.2 | 18917.0 | 15787.8 |
| 57.5° | 13652.3 | 13563.4 | 13730.3 | 14816.0 | 16029.6 | 16299.5 | 17458.5 | 18335.2 | 19678.2 | 19746.9 | 16155.9 |
| 60°   | 14287.1 | 14167.1 | 14354.2 | 15703.6 | 17329.0 | 17647.2 | 18840.6 | 19520.7 | 20807.6 | 20411.4 | 16274.5 |
| 62.5° | 14842.5 | 14758.3 | 15046.8 | 16694.1 | 18793.8 | 19143.2 | 20197.6 | 20781.1 | 21921.4 | 20687.4 | 15847.1 |
| 65°   | 15327.7 | 15341.7 | 15840.9 | 17807.9 | 20427.0 | 20799.8 | 21754.4 | 22334.8 | 22798.0 | 20523.7 | 14847.2 |
| 67.5° | 15906.4 | 15985.9 | 16837.6 | 19274.2 | 22482.9 | 22891.7 | 24019.5 | 24028.8 | 23287.9 | 19562.8 | 12878.6 |
| 70°   | 16750.3 | 16914.1 | 18208.8 | 21308.3 | 25406.2 | 25967.7 | 26838.2 | 25024.0 | 22599.9 | 16957.7 | 10133.2 |
| 72.5° | 17499.0 | 17804.8 | 19667.3 | 23635.7 | 28969.0 | 29394.9 | 28487.0 | 24450.0 | 19725.1 | 12708.5 | 6312.9  |
| 74°   | 17194.9 | 17573.9 | 19932.5 | 24782.2 | 30310.5 | 30514.9 | 27930.1 | 22774.7 | 16446.1 | 8801.0  | 3668.9  |
| 75°   | 16539.7 | 16951.5 | 19545.6 | 24771.3 | 30140.5 | 30026.7 | 26585.5 | 20860.6 | 13544.7 | 6002.5  | 2441.2  |
| 77.5° | 13348.1 | 13783.4 | 16469.5 | 21230.3 | 24713.6 | 24606.0 | 20422.3 | 13993.9 | 5932.3  | 1968.6  | 1240.2  |
| 80°   | 7760.5  | 8092.8  | 10223.6 | 13482.3 | 16664.5 | 16859.4 | 13430.8 | 6924.4  | 2333.6  | 1105.9  | 840.8   |
| 82.5° | 3447.4  | 3676.7  | 4938.7  | 6882.3  | 10056.7 | 10307.9 | 7033.7  | 3628.4  | 1441.4  | 672.3   | 505.4   |
| 85°   | 2261.9  | 2431.9  | 2998.2  | 3277.4  | 4788.9  | 4960.5  | 3442.7  | 2825.0  | 951.6   | 369.7   | 371.2   |
| 87.5° | 1626.9  | 1790.8  | 2227.5  | 1945.2  | 2197.9  | 2080.9  | 1873.4  | 2614.4  | 382.2   | 210.6   | 124.8   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7802.6  | 7802.6 | 7802.6 | 7802.6 | 7802.6 | 7802.6 | 7802.6 | 7802.6 | 7802.6 | 7802.6 | 7802.6 |
| 2.5°  | 7729.3  | 7704.4 | 7648.2 | 7542.2 | 7482.8 | 7432.9 | 7350.3 | 7301.9 | 7280.0 | 7278.6 | 7287.9 |
| 5°    | 7537.4  | 7479.8 | 7334.7 | 7156.9 | 7014.9 | 6885.4 | 6724.7 | 6628.1 | 6559.4 | 6518.9 | 6529.8 |
| 7.5°  | 7314.4  | 7224.0 | 6996.2 | 6712.3 | 6484.5 | 6233.4 | 5985.4 | 5837.2 | 5721.8 | 5636.0 | 5651.5 |
| 10°   | 7161.6  | 7036.7 | 6704.4 | 6295.8 | 5916.7 | 5551.7 | 5210.1 | 5005.8 | 4843.5 | 4718.8 | 4728.1 |
| 12.5° | 7110.0  | 6941.6 | 6481.4 | 5935.4 | 5403.5 | 4904.3 | 4458.2 | 4144.6 | 3977.8 | 3835.8 | 3846.7 |
| 15°   | 7117.9  | 6891.7 | 6294.2 | 5611.0 | 4941.8 | 4313.2 | 3771.8 | 3405.3 | 3179.1 | 3080.8 | 3082.4 |
| 17.5° | 7124.1  | 6833.9 | 6097.6 | 5263.2 | 4484.7 | 3760.9 | 3172.9 | 2801.6 | 2587.8 | 2497.4 | 2499.0 |
| 20°   | 7103.8  | 6740.4 | 5854.3 | 4863.8 | 4007.4 | 3254.0 | 2684.6 | 2369.5 | 2207.3 | 2137.1 | 2137.1 |
| 22.5° | 7077.3  | 6629.6 | 5579.8 | 4462.9 | 3536.3 | 2814.1 | 2335.2 | 2095.0 | 2001.3 | 1954.6 | 1953.0 |
| 25°   | 7089.8  | 6546.9 | 5299.0 | 4051.1 | 3102.6 | 2463.1 | 2102.8 | 1943.7 | 1881.3 | 1851.6 | 1850.1 |
| 27.5° | 7156.9  | 6507.9 | 5040.0 | 3640.9 | 2723.6 | 2199.5 | 1946.7 | 1834.5 | 1793.9 | 1775.2 | 1775.2 |
| 30°   | 7278.6  | 6507.9 | 4770.2 | 3291.4 | 2408.5 | 2004.5 | 1826.7 | 1750.2 | 1722.2 | 1709.7 | 1709.7 |
| 32.5° | 7490.7  | 6543.8 | 4509.7 | 2945.1 | 2157.4 | 1851.6 | 1726.8 | 1675.3 | 1653.5 | 1647.3 | 1647.3 |
| 35°   | 7855.6  | 6665.5 | 4255.4 | 2617.6 | 1954.6 | 1726.8 | 1631.7 | 1602.0 | 1586.4 | 1584.8 | 1589.5 |
| 37.5° | 8368.9  | 6913.5 | 4016.7 | 2375.7 | 1811.0 | 1625.5 | 1552.1 | 1528.7 | 1519.4 | 1527.2 | 1533.4 |
| 40°   | 9014.7  | 7250.4 | 3800.0 | 2157.4 | 1701.8 | 1544.3 | 1478.8 | 1463.2 | 1458.5 | 1469.4 | 1478.8 |
| 42.5° | 9794.7  | 7705.9 | 3622.1 | 1999.8 | 1617.6 | 1475.7 | 1416.4 | 1397.7 | 1393.0 | 1405.5 | 1418.0 |
| 45°   | 10638.6 | 8195.8 | 3497.3 | 1882.8 | 1552.1 | 1424.1 | 1361.8 | 1341.5 | 1332.2 | 1338.4 | 1352.4 |
| 47.5° | 11406.1 | 8659.0 | 3447.4 | 1800.1 | 1489.7 | 1380.6 | 1313.5 | 1288.5 | 1272.9 | 1269.8 | 1280.7 |
| 50°   | 12053.4 | 9003.8 | 3470.8 | 1750.2 | 1439.8 | 1332.2 | 1266.6 | 1238.6 | 1215.2 | 1201.1 | 1209.0 |
| 52.5° | 12524.5 | 9220.6 | 3492.7 | 1728.4 | 1400.8 | 1279.1 | 1215.2 | 1188.7 | 1157.4 | 1134.1 | 1134.1 |
| 55°   | 12866.1 | 9270.5 | 3444.3 | 1711.3 | 1371.1 | 1221.4 | 1157.4 | 1132.5 | 1101.3 | 1074.8 | 1071.7 |
| 57.5° | 13000.3 | 9130.1 | 3264.9 | 1686.3 | 1350.8 | 1166.9 | 1096.6 | 1077.9 | 1051.3 | 1020.1 | 1018.6 |
| 60°   | 12819.3 | 8696.5 | 2918.6 | 1633.2 | 1324.4 | 1121.6 | 1035.8 | 1023.3 | 1010.8 | 981.2  | 979.6  |
| 62.5° | 12092.4 | 7745.0 | 2470.9 | 1525.6 | 1271.3 | 1073.2 | 979.6  | 985.9  | 987.4  | 967.1  | 964.1  |
| 65°   | 10774.3 | 6437.7 | 2034.1 | 1385.2 | 1191.7 | 1015.5 | 921.9  | 951.6  | 968.7  | 965.5  | 960.9  |
| 67.5° | 8858.7  | 5010.4 | 1723.7 | 1237.0 | 1087.2 | 935.9  | 859.5  | 893.8  | 907.9  | 918.8  | 915.7  |
| 70°   | 6575.0  | 3533.2 | 1425.7 | 1081.1 | 960.9  | 842.3  | 778.4  | 795.5  | 786.2  | 798.7  | 803.4  |
| 72.5° | 3665.8  | 2119.9 | 1162.1 | 925.0  | 829.9  | 733.1  | 687.9  | 684.8  | 664.6  | 664.6  | 664.6  |
| 74°   | 2199.5  | 1555.2 | 1021.7 | 828.3  | 750.4  | 661.4  | 622.4  | 608.4  | 589.7  | 591.2  | 589.7  |
| 75°   | 1768.9  | 1336.9 | 937.5  | 764.3  | 694.2  | 619.3  | 580.3  | 561.5  | 547.6  | 547.6  | 546.0  |
| 77.5° | 1116.9  | 1015.5 | 755.0  | 608.4  | 555.3  | 510.1  | 483.6  | 458.6  | 458.6  | 457.0  | 455.5  |
| 80°   | 843.9   | 808.0  | 588.1  | 460.2  | 425.8  | 391.5  | 374.4  | 363.5  | 363.5  | 368.1  | 366.6  |
| 82.5° | 578.8   | 608.4  | 413.4  | 321.4  | 304.2  | 279.2  | 276.1  | 277.7  | 272.9  | 266.7  | 265.2  |
| 85°   | 422.7   | 457.0  | 279.2  | 202.8  | 185.7  | 170.0  | 182.5  | 188.7  | 180.9  | 166.9  | 160.7  |
| 87.5° | 162.3   | 299.5  | 149.8  | 84.2   | 78.0   | 67.1   | 78.0   | 81.1   | 87.4   | 68.7   | 70.2   |
| 90°   | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)